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	D3391-025		,	A	ccept						Setup	Start			-
	Alto Trutus Assessed	-1-1	15	3					•			Stop			
		-	1 18818									отор			
						C	Cust Item I	D:							
Required Date: Reference:	5/20/2011	Req'd Qty: 1.00				. (	Customer:						.*		
Approvals:	Process Plan	: 4	Date://-0.	5-5	Fooling:	. *	D:	ate:			Run	Start			
	QC:		Date:		SPC (Y/N):		Da	ate:	:			Stop			
Sequence ID/ Work Center ID					Set Up/ Run Hours		Tool ID			Accept Qty	-			Insp. Stamp	
Draw Nbr	Revis	sion Nbr													
D3391	Rev F	I/ DEO													
Mori Seiki CNC Lath		<b>Memo</b> Turn as pe	r Folio FA599				s. KM	M.()11k	5/11			<u> </u>			- prof
		Schoe	oaten # on Iwo end a	at 90 degree	,										
QC Quality Control	•	QC2- Inspect parts off  Memo	machine FAI/FAIB		0.00 J.f.	5. Ju	m9n.U	11/05	· /11 <sub>s</sub>	- Justin -	- <i>-</i> J	<i>D</i>		•	
Thursday, May 05, 2011 11:46:56 AM  Item ID: D3391-025															

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W/O:	WORK ORDER CHANGES				-					
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cat	egory:	NCF	R: Yes	No <b>DQ</b>	A:	_ Date: _	
	R	esolution:	Dispositi	on:	QA:	N/C CI	sed:		Date: _	••••
NCR:			WORK OR	DER NON-CONFORM	ANCE	(NCR	)			
DATE	STEP	Description of NC			ction B	<u> </u>	Verifi	cation	Approval	Approval
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Sect	ion C	Chief Eng	QC Inspector
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Thursday, May 05, 2011 11:46:56 AM



Page 2

Item ID:

D3391-025

Accept



Setup Start



**Revision ID:** 

Item Name:

Aft Tube Assembly

**Start Date:** 

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

0.00

0.00

Date:

Run

Start

Stop

Required Date: 5/20/2011

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Tool # Plan

Code

Accept

Qty

Stop

Reject

Reject

Qty

Number Stamp

Insp.

Sequence ID/ **Work Center ID** 

120

HAAS 1

HAAS CNC vertical machine #1

**Operation** Description

HAAS CNC VERTICAL MACHINING #1

Memo 1-Machine as per Folio FA 599 Rev: A & Dwg D3391 Rev:

2-Deburr

130

Quality Control

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

140

QC Quality Control QC8- Inspect parts - second check

Memo

Memo

0.00

hul/11.05.2/ 1

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W/O:		WORK ORDER CHA			NGES										
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
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Part No		PAR #:													
	Re	solution:		· ·				Date:							
NCR:		·	WORK ORD	ER NON-CONFORM	ANCE (NCF	R)									
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#### Work Order ID 69225

Thursday, May 05, 2011 11:46:56 AM



Page 3

Item ID:

D3391-025

Accept



Setup Start

Stop

Stop



**Revision ID:** 

Item Name:

Aft Tube Assembly

Start Date:

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Sequence ID/

Process Plan: Date:

Tooling:

Date:

Date:

Start Run

Required Date: 5/20/2011

Date:

SPC (Y/N):

Set Up/

**Run Hours** 

Tool # Plan Code

Accept Reject Qty

Reject Number

Insp. Stamp

Work Center ID 150

Skidtubes

Skidtubes

Skidtubes

Operation

Description

Memo 1-Drill (PILOT HOLE) aft cap holes per Dwg D3391 using DT8803

0.00

0.00



Tool ID

11-5-71

Qty

160

CNC Bend 1

**BENDING MACHINE - SKIDTUBES** 

Memo

0.00

0.00

CNC Delta 100 Bender

Form as per Dwg D3391 Using Bend Prog 3391025

11-5-31

170

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

H-4,150

1 8 BIE 11/05/31

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W/O:			W	ORK ORDER CHANGE	:S			~	
DATE	STEP	PROC	EDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Page 4

Item ID:

D3391-025

Setup Start

Stop



**Revision ID:** 

Start Date:

Item Name:

Aft Tube Assembly

Required Date: 5/20/2011

Start Qty: 1.00 Req'd Qty: 1.00



'Cust Item ID:

**Customer:** 

Reference:

A	nr	)r(	)V:	als	•

Process Plan:

Date:

Tooling:

Accept

Run

Qty

Start

OC:

5/5/2011

Date: \_\_\_\_\_\_

SPC (Y/N):

Date:

Date:

Stop

Sequence ID/ Work Center ID

180



Skidtubes

Skidtubes

Operation Description

Set Up/ Run Hours

Tool ID

Tool # Plan Code

Reject Accept Qty

Reject Number Stamp

Insp.

Skidtubes

Memo

0.00

0.00

1-Open Aft cap pilot hole to .208" as per Dwg D3391

2-Drill float bag holes using DT8809 as per Dwg D3391(Holes marked "A" Only.

3-Drill wearplate holes as per Dwg D3391 using DT8878(Mid Tube) & DT8217 Wearplate Jig

\*\*\*\*\*Do Not Open To Finished Size\*\*\*\*\*

4-Drill Wearshoe holes as per DWG D3391 using DT8939 locating from 2 previously drilled aft wearplate holes.

5-Open wearplate holes to 0.250" and c'bore as per dwg D3391

6-Open up all wearshoe, wearplate to 0.297" and float bag holes to 0.328" as per Dwg D3391.

7-Deburr

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W/O:			V	ORK ORDER CHANGES	S				
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NOTE: Date & initial all entries

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#### Work Order ID 69225

Thursday, May 05, 2011 11:46:56 AM



Page 5

Item ID:

D3391-025

Accept

Setup Start

Stop



Revision ID:

Item Name:

Aft Tube Assembly

Start Date:

5/5/2011

QC:

Start Qty: 1.00

Required Date: 5/20/2011

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date: Date:

Tooling: SPC (Y/N):

Date: Date: Run

Start Stop

Sequence ID/

Work Center ID

190

OC

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ Run Hours

**Tool ID** 

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Quality Control

200

HandFinish Hand Finishing Chemical Conversion Coat per OSI005 4.1

Memo

Memo

0.00

0.00

210

QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

W/O:			ORK ORDER CHAN	ANGES								
DATE	STEP	PRO	CEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector		
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#### Work Order ID 69225

Thursday, May 05, 2011 11:46:56 AM



Page 6

Item ID:

D3391-025

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Aft Tube Assembly

**Start Date:** 

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00

Operation

Skidtubes

Description



Cust Item ID:

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

0.00

0.00

SPC (Y/N):

Set Up/

**Run Hours** 

Date: Date: Run

Start

Stop



Sequence ID/ **Work Center ID** 

Skidtubes

Skidtubes

220

Memo

Instal spacers as per dwg D3391

A/R Magnabond 6398 Batch: 1/116677 exp. date: 7001/08/30

Date:

cure time 12hrs as per QSI0015

0 W36/26

Tool ID

Tool# Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

230

QC

QC5- Inspect part completeness to step on W/O

Memo

Quality Control

235

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

X & M. 11/06/06

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W/O:			N	ORK ORDER CHANG	GES					1
DATE	STEP	PRO	CEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	R	esolution:	Disposit	ion:	QA:	N/C CIG	sed:		Date: _	
NCR:		V	VORK OR	DER NON-CONFORM	IANCE	(NCR	)			
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	2									
						_				

0.00

0.00

1 & ell ulo 6/02

260

HandFinish Hand Finishing HandFinishing

1-Install inserts as per Dwg D3391 2-Install Aft Cap as per Dwg D3391

A/R Sikaflex-241/-291 //(((a Cu)
Sikaflex expiry date: 12 | a(

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W/O:		WORK ORDER O			ANGES									
DATE	STEP	PROC	CEDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector						
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#### Work Order ID 69225

Thursday, May 05, 2011 11:46:56 AM



Page 8

Item ID:

D3391-025

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Aft Tube Assembly

Start Date:

5/5/2011

Start Otv: 1.00

Operation

Description

Required Date: 5/20/2011

Req'd Qty: 1.00



**Cust Item ID: Customer:** 

Tool ID

Reference:

Approvals:

Process Plan:

OC:

Date:

Date:

Tooling:

SPC (Y/N):

Date: Date:

Tool # Plan

Run

Start Stop



Sequence ID/ Work Center ID

270

Memo

Memo

Memo

Set Up/

**Run Hours** 

0.00

Foldoly 2 mon

Code

Accept

Oty

Reject Reject Oty Number Stamp

Insp.

**Ouality Control** 

280

Packaging

Packaging

Identify as per dwg & Stock Location: WO

QC5- Inspect part completeness to step on W/O

0.00

0412-742-043/869241

QC Quality Control QC21- Final Inspection - Work Order Release

0.00

0.00

290

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W/O:		WORK ORDER C			ANGES								
DATE	STEP	PROG	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Thursday, May 05, 2011 11:47:03 AM

Work Order ID: 69225

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 5/5/2011 Start Qty: 1.00

Required Date: 5/20/2011

Required Qty: 1.00

Comments:

IPP Rev B 06-02-07

07.11.07

06-03-28 IPP Rev:C 07.03.20

IPP rev D

IPP rev E

ECN773 dwg rev. D EC Update Manuf. Instructions JLM  $\square\square$   $\square$ 

revF dwg

rev G dwg ecn 1053p EC verified by: DD

EC

ECN 1056 DD verified by: EC IPP Rev:F 07-11-13 IPP Rev:G 08-09-10 revH as per dwg DD verified by:EC

	11 Rev. G 00-07-	io ieiii as pei ai		, , , , , , , , , , , , , , , , , , , ,	30								
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6014-090  ALUMINUM EXTRUSION		Manufactured	No			100	Each	11.0000	1	1			
				<b>Location</b>		Loc	<u>Qty</u>	Loc Code					
D3670-4-200		Manufactured	No	LG (	56572)	230	11 11 Each	58.0000	4    <b>       </b>	4	- - 9191	n.C (1	105/11
SPACER				<u>Location</u> LG	B689	750 Loc	<u>Oty</u> 58 58	Loc Code	_	4	D	) //-	6.3
D2646		Manufactured	No		08107	270	Each	47.0000	1 	1 Jul	براه ر	loa	
·				<u>Location</u> FP006	1	<u>Loc</u>	<u>Oty</u> 43	Loc Code	_		_		

<u>Location</u>		Loc Qty	Loc C
FP006		43	
(	62678	43	
FP-4	<del></del>	4	
(	69019	4	

W/O:	-		W	ORK ORDER CHANGE	=5		•			
DATE	STEP	PRO	CEDURE CH			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector
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		•								
Part No	:	PAR #:	Fault Cat	egory:	NCR:	Yes N	lo <b>DQ</b>	A:	Date:	,
	R	esolution:	Dispositi	on:	_ QA: N	I/C Clo	sed:		Date:	
NCR:		V	ORK ORI	DER NON-CONFORMA	NCE (	NCR)				
DATE	STEP	Description of NC		Corrective Action Section		2:	Verific	cation	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Sect	on C	Chief Eng	QC Inspector
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Thursday, May 05, 2011 11:47:03 AM

Work Order ID: 69225 D3391-025 Parent Item: Parent Item Name: Aft Tube Assembly Start Date: 5/5/2011 Required Date: 5/20/2011 Start Qty: 1.00 Required Qty: 1.00 D3537-1 20.0000 Manufactured No 270 Each 11/06/07 Wearpad Loc Qty Location Loc Code FP017 20 368944 63313 2 66135 14 66935 4 D3537-7 270 10.0000 Manufactured No Each Wearpad Location Loc Otv Loc Code FP017 10 56831 3 65146 D3553-1 Manufactured No 270 Each 22.0000 Gasket Location Loc Qty Loc Code FP013 22 22 56568 D3553-3 270 46.0000 Manufactured No Each Gasket Location Loc Oty Loc Code FP 20 31631 20 FP013 26 26 53480

W/O:	<u> </u>		WC	ORK ORDER CHANG	GES					•
DATE	STEP	PRO	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Description of NC	Corrective Action Section Initial Action Description			Sign &		cation		Approval
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Thursday, May 05, 2011 11:47:03 AM

Work Order ID: 69225 Parent Item: D3391-025 Parent Item Name: Aft Tube Assembly Start Date: 5/5/2011 Required Date: 5/20/2011 Start Qty: 1.00 Required Qty: 1.00 D3672-1 Manufactured No 270 Each 1,379,000 lle 10607 Phenolic Washer Location Loc Qty Loc Code FP-A 29 52505 29 ST074 1350 XZ 64177 850 66821 500 ALS4-1032-130 260 Purchased No Each 1,338.000 14 el Morelot Insert Loc Code Location Loc Qty ST281 1338 PIX M 117717 117331 1338 ALS4-1032-225 Purchased No 270 Each 1,069.000 12 12 4/06/07 Insert Location Loc Qty Loc Code FP-B 28 28 110768 VIZ. ST282 1041 110768 1041 AN3C4A Purchased No 270 Each 1.984.000 **BOLT** Location Loc Qty Loc Code ST350 1984 984 117094 117313 1000

W/O:	•		WC	RK ORDER CHAN	IGES					
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cate	gory:	NCR	: Yes I	No DQ	A:	Date:	
	R	esolution:	Disposition	n:	QA:	N/C Clo	sed:		Date: _	
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DATE	STEP	Description of NC	Corrective Action Section			Verific		cation		Approval
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#### **Picklist Print**

Thursday, May 05, 2011 11:47:04 AM

Page 4

Work Order ID: 69225

Parent Item:

D3391-025

Parent Item Name: Aft Tube Assembly



Start Date: 5/5/2011

Required Date: 5/20/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C5A



•••	 			

Purchased No 270

Each

1,332.000



Il 11/06/07

Location	La	e Oty	Loc Code		)	
FP-A		7		· A.		_
115835		7		154		_
ST350		1325				_
115422		49			31	_
116419		376			*4	_
116549		100				
117343		500				_
117508		300				-
	270	Each	0.0000	10	10	

AN960C10L

NAS1149C0332 Purchased

No

MI17291 (40) MIL 100/07



washer

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W/O: ,		WORK ORDER CHANGES										
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Part No	:	PAR #:	Fault Cate	egory:	_ NCR	: Yes I	No <b>DQ</b>	<b>A</b> :	Date:			
Resolution:		Disposition	Disposition: Q									
NCR:		,	WORK ORD	ER NON-CONFORM	ANCE	(NCR)		·				
DATE	STEP	Description of NC:			Section B		Verific	cation	Approval	Approval		
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Sect	ion C	Chief Eng	QC Inspector		
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DART AEROSPACE LTD	Work Order: 69225	): <b>A</b>
Description: Float Skidtube (412)	Part Number: D3391-3	1
Inspection Dwg: D3391 Rev: H	Page 1 of 1	,

#### FIRST ARTICLE INSPECTION CHECKLIST

	FIRS	HARHULE	NSPECII	ON CHE	CKLIS I	
		X First Arti	cle	Prot	otype	
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
		La	the Section	n		
14.000	+/-0.010	14,000			Mosi	Control
3.500	+/-0.010	3,503	V		Mic with T.G	
88.93	+/-0.030	88.924	40		tape	FC-11
44.995	<del>- +/-0-</del> 030	NA	/////	1.08.1	2	, , , , , , , , , , , , , , , , , , , ,
Ø3.200	+/-0.010	3,207	V	1	micr	CNC-05
88,93	+/-0.030	NA	1/1	1 is	0511	
Ø3.750	+/-0.010	3.756.	1.	1	micr	CNC-05 4
30° x 160"	+/-0.010	NA	Juli	11.05	10	
Meas	ured by: J.F.	5. /mgm.	0 11	105/31	Date:	
Aud	lited by:	1,			Date:	11.05-3/
		HA	AS Section	n	, , , , , , , , , , , , , , , , , , ,	
1.526	+0.000/-0.030	1.511	~		Vein	6A-01
7.500	+/-0.010	7.503	~		Vern	(NC-02
27.750	+/-0.010	27.750	1		TAPE	6A-12
31.750	+/-0.010	31.750	1		4	: <b>1</b> 1.
35.250	+/-0.010	35.250	/		11	11
, 3.300	+/-0.010	3,304			Vein	6A-01
				1		1

	udited by:	11M 91/1		Date:	11/05/11
Ø0.484	+0.005/-0.001	Ø 0.489	<u> </u>	Vern	GA-01
R0.062	+/-0.010	R 0.063	~	R-6	ref.
0.687	+0.010/-0.000	0.890	~	Vein	6A-01
				1110	<u> </u>

11

GA-10

MIC

0,204

+/-0.010

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Rev	Date	Change	Revised by	Approved
Α	06.04.24	New Issue P/O D3391-015/-025	KJ/JLM	
В	06.06.19	Dwg revision update	KJ/JLM	
С	07.04.20	Ø0.208 dimension removed	KJ/JLM	
D	07.09.06	0.400 dimension removed	KJ/JLM	-
E	07.11.23	Dwg Rev. updated	KJ/EC/DD	
F	09.04.27	Dimensions updated per Rev H and NCR09-028	KJ/JLM 11	
G	09.11.16	Dimension 0.200 removed	KJ KJ	

0.200

3.520



FOR WEARSHOE INSERTS. C'BORE AS NOTED AND INSTALL INSERTS EXCEPT

WHERE INDICATED.

SCREW

С

SHEET 1 OF 8

SCALE

NTS

D3391

TITLE

412 FLOAT SKIDTUBE

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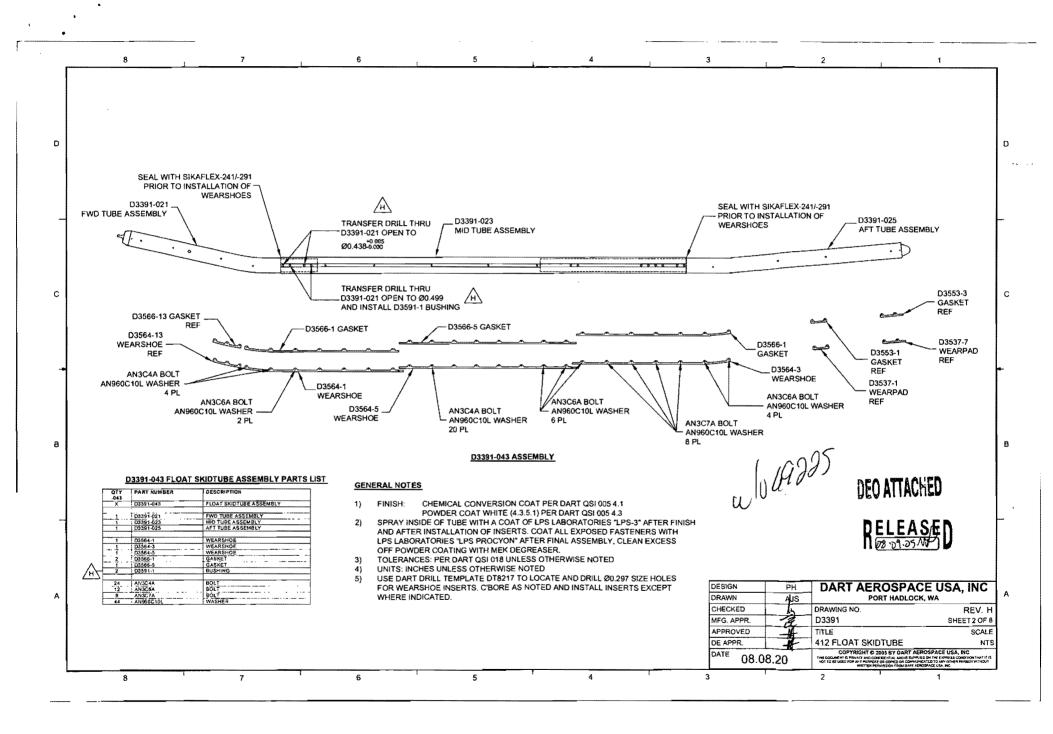
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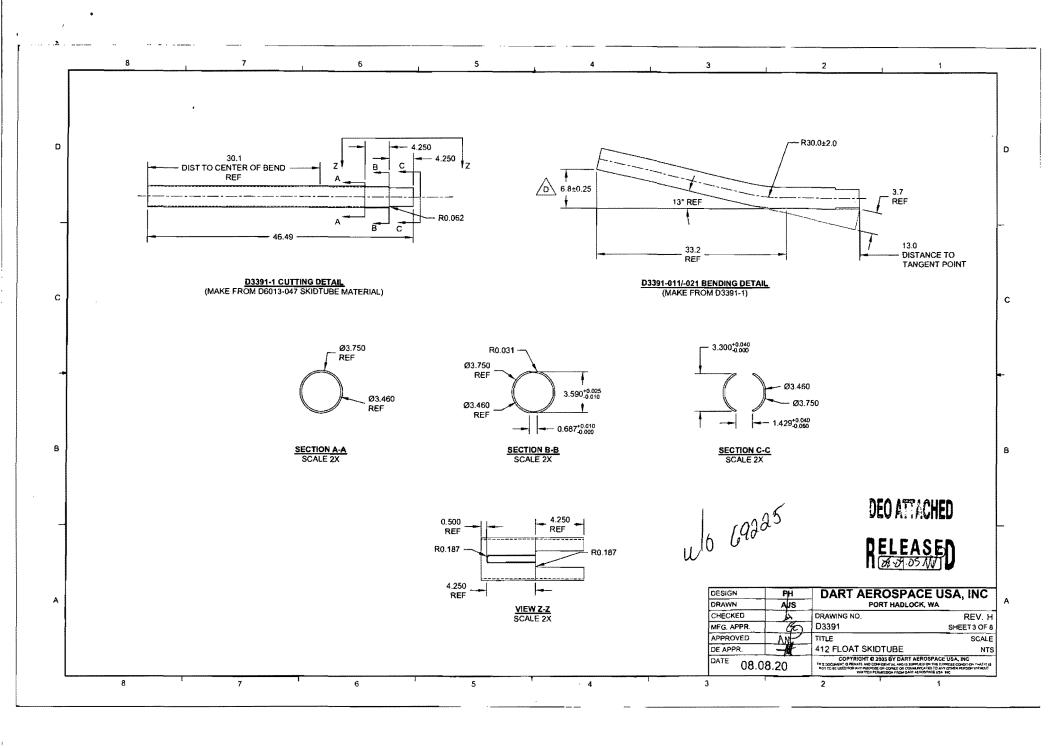
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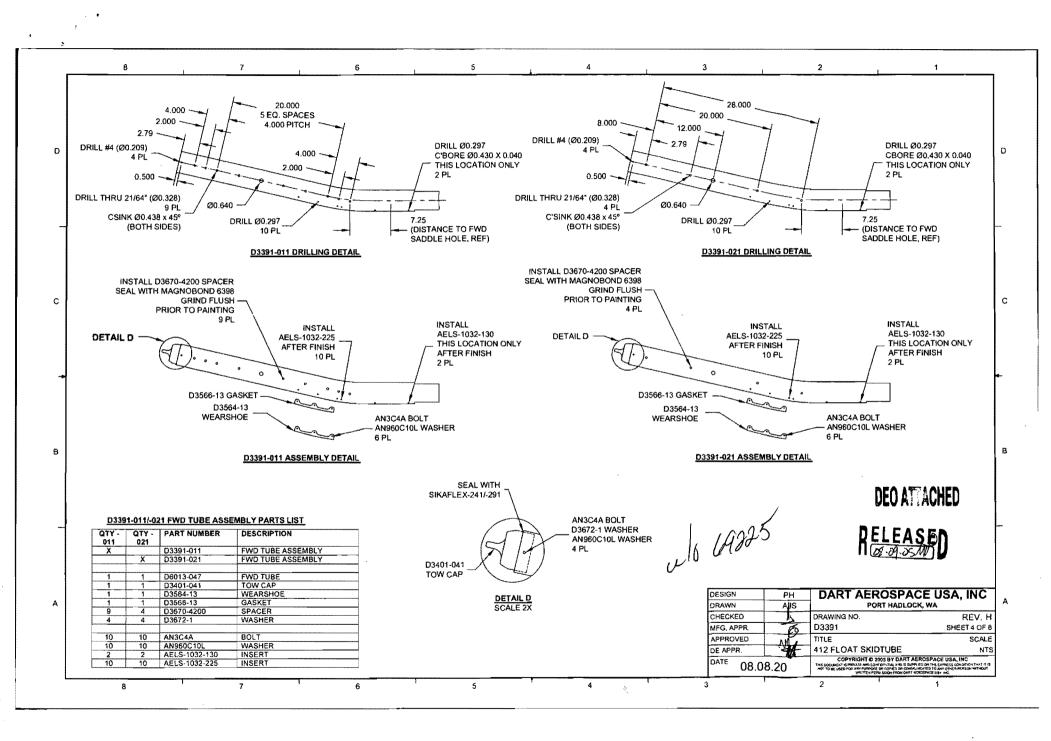
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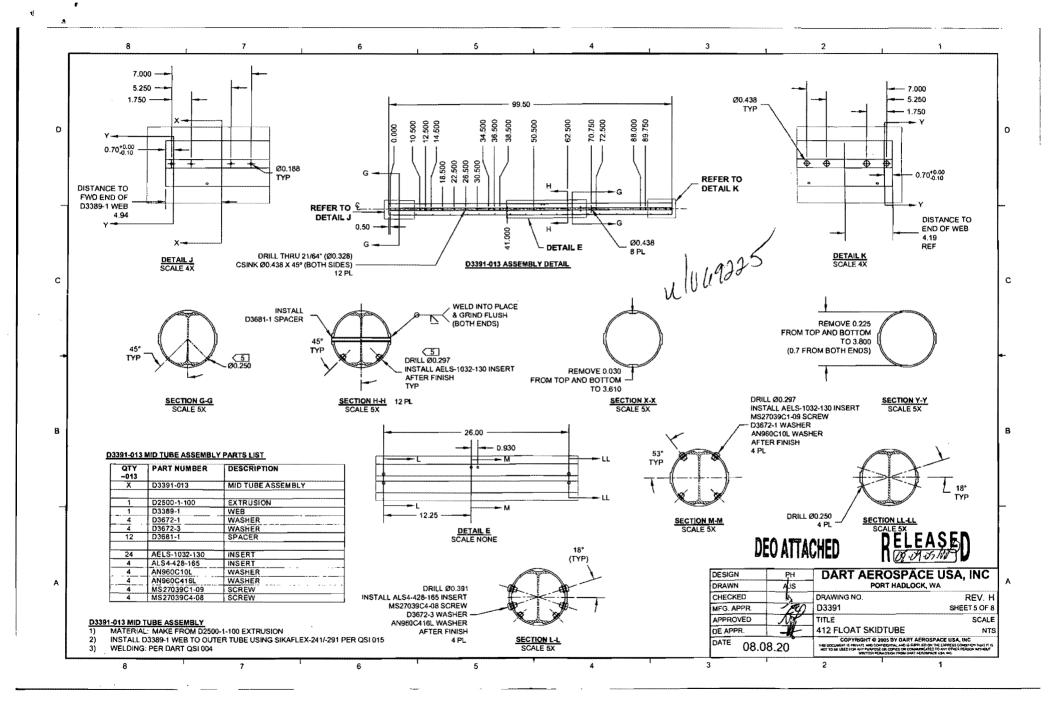
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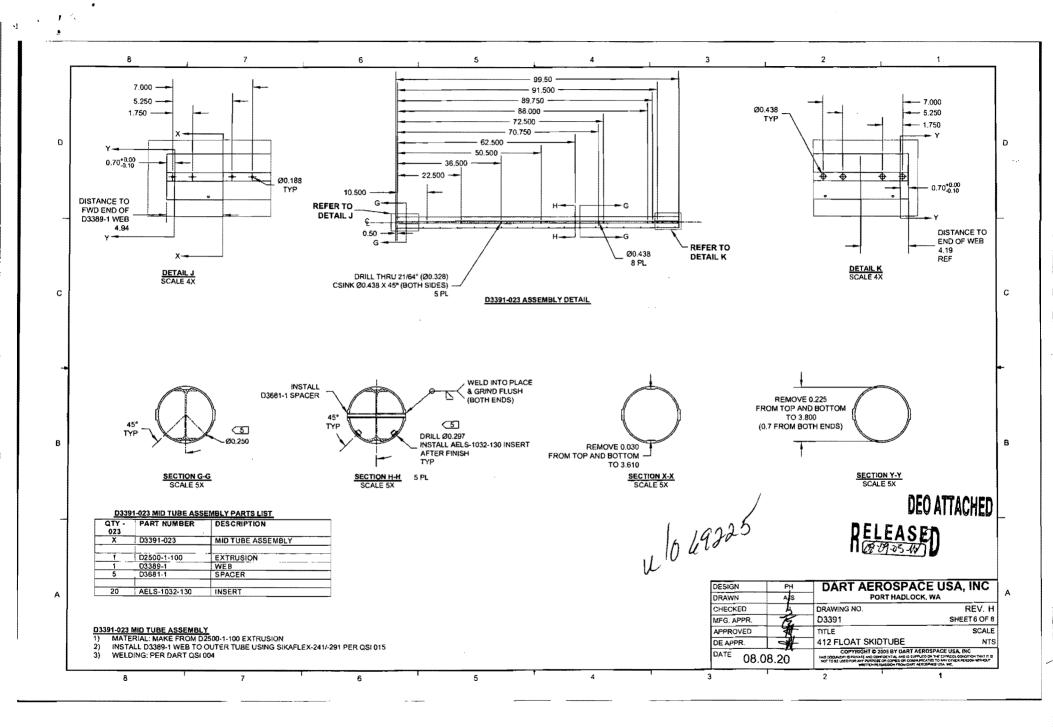
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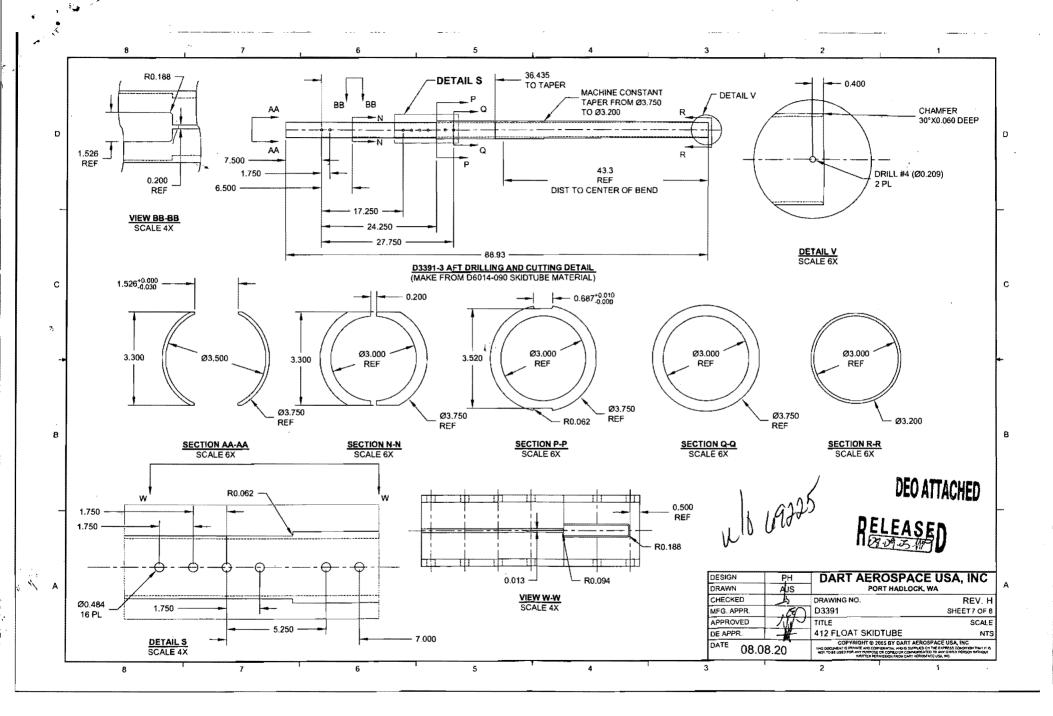
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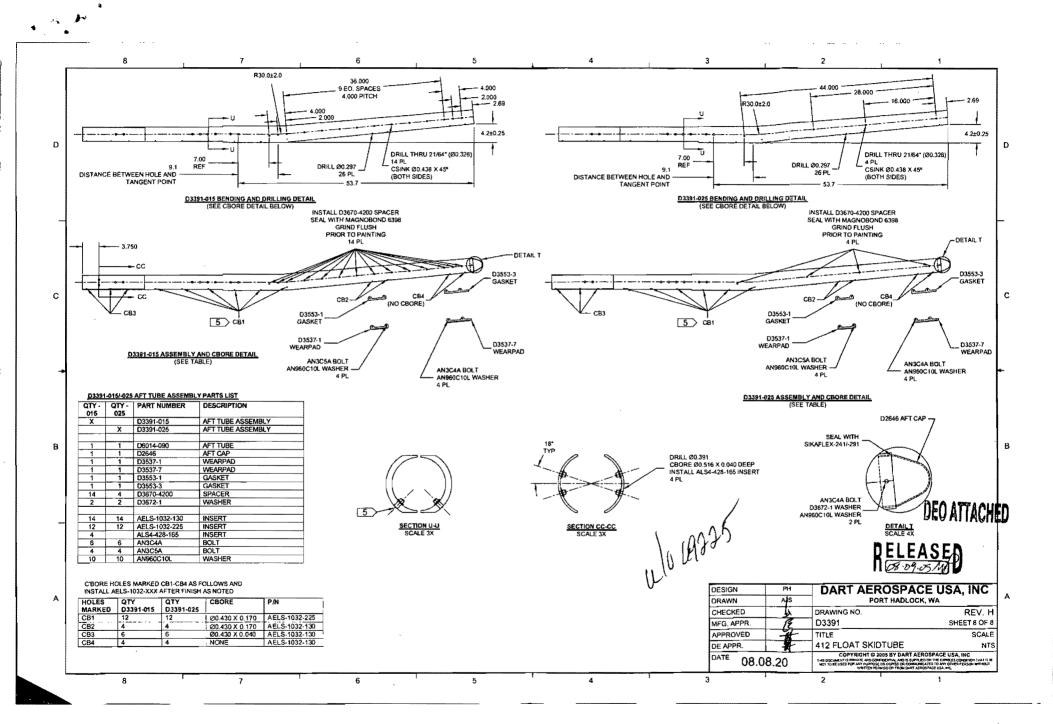
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#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### **CHANGE:**

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A SOAT OF LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

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